



2827

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Lee et al. DOCKET NO.: WK2K1080
SERIAL NO: 10/076,701 EXAMINER:
FILED: 02/13/02 ART UNIT:
TITLE: A STACKING STRUCTURE FOR SEMICONDUCTOR CHIPS AND A
SEMICONDUCTOR PACKAGE USING IT

RECEIVED
JAN 21 2003
TECHNOLOGY CENTER 2800

Assistant Commissioner
for Patents
Washington, D.C. 20231

Weiss, Moy & Harris, PC
4202 N. Brown Avenue
Scottsdale, AZ, 85251

January 14, 2003

I hereby certify that on the 14th day of January, 2003,
this correspondence is being deposited with the U.S.
Postal Service as first class mail in an envelope
addressed to: Assistant Commissioner for Patents,
Washington, D.C. 20231.

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to
the attention of the Examiner the documents listed on the attached
form PTO-1449 listing the following references. This Information
Disclosure Statement is being filed before the mailing of the first

Office Action on the merits for the above-referenced application. Accordingly, Applicant respectfully submits that no fee is due for filing this paper.

The listed references may be relevant to the prosecution of the subject application. Applicant respectfully requests that these references be considered and made of record.

No representation is made or intended as to the completeness of this list, nor is this submission of references an admission that these references are prior art or material to the subject application.

If there are any fees incurred by this Amendment Letter, please deduct them from our Deposit Account NO. 23-0830.

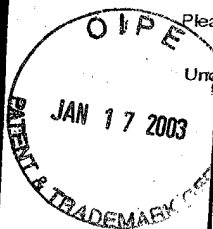
Respectfully submitted,



Jeffrey D. Moy
Reg. No. 39,307
Attorney for Applicants

Weiss, Moy & Harris, P.C.
4204 N. Brown Ave.
Scottsdale, AZ 85251
(480) 994-8888 (Phone)
(480) 947-2663 (Fax)

JDM/wp



Please type a plus sign (+) inside this box → ☐

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/076,701
Filing Date	02-13-2002
First Named Inventor	LEE ET AL.
Group Art Unit	
Examiner Name	
Attorney Docket Number	WK2K1080

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		6,005,778		Spielberger et al.	12-21-1999	
		4,763,188		Johnson	08-09-1988	
		5,025,306		Johnson et al.	06-18-1991	
		5,291,061		Ball	03-01-1994	
		5,323,060		Fogal et al.	06-21-1994	
		5,721,452		Fogal et al.	02-24-1998	
		5,739,581		Chillara et al.	04-14-1998	
		5,815,372		Gallas	09-29-1998	
		5,886,412		Fogal et al.	03-23-1999	
		Re. 36,613		Ball	03-14-2000	
		6,051,886		Fogal et al.	04-18-2000	
		6,057,598		Payne et al.	05-02-2000	
		5,502,289		Takiar et al.	03-26-1996	
		5,973,403		Wark	10-26-1999	
		5,696,031		Wark	12-09-1997	
		5,495,398		Takiar et al.	02-27-1996	
		5,463,253		Waki et al.	10-31-1995	
		5,012,323		Faraworth	04-30-1991	
		5,689,135		Ball	11-18-1997	
		5,347,429		Kohno et al.	09-13-1994	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
			62-126661	Eng. Abs.		06-08-1987		
			62-56262	Eng. Abs.		02-24-1992		
			63-244654	Eng. Abs.		10-12-1988		
			5136323	Eng. Abs.		06-01-1993		
			5109975	Eng. Abs.		04-30-1993		
			61117858	Eng. Abs.		06-05-1986		
			4028260	Eng. Abs.		01-30-1992		
			4116859	Eng. Abs.		04-17-1992		
			4096358	Eng. Abs.		03-27-1992		
			5013665	Eng. Abs.		01-22-1993		

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO
JAN 17 2003
PATENT & TRADEMARK

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number 10/076,701
Filing Date 02/13/2002
First Named Inventor LEE ET AL.
Group Art Unit
Examiner Name
Attorney Docket Number WK2K1080

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		6,080,264		Ball	06-27-2000	
		5,422,435		Takiar et al.	06-06-1995	
		6,072,243		Nakanishi	06-06-2000	
		6,214,641		Akram	04-10-2001	
		5,715,147		Nagano	02-03-1998	
		6,133,637		Hikita et al.	10-17-2000	
		5,866,949		Schueller	02-02-1999	
		6,326,696		Horton et al.	12-04-2001	
		6,013,948		Akram et al.	01-11-2000	
		6,157,080		Tamaki et al.	12-05-2000	
		6,140,149		Wark	10-31-2000	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
			1028856 w/Eng.	Abs.		01-31-1989	
			1099248Aw/Eng.	Abs.		04-18-1989	
			60182731w/Eng.	Abs.		09-18-1985	
			56062351w/Eng.	Abs.		05-28-1981	
			3169062 w/Eng.	Abs.		07-22-1991	
			10-256470			09-25-1998	
			1071162Aw/Eng.	Abs.		03-16-1989	
			5-75015(A)Eng.	Abs.		03-26-1993	
			503 201 A2			12-20-1991	
			64001269 Eng.	Abs.		01-05-1989	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	10/076,701
Filing Date	02-13-2002
First Named Inventor	LEE ET AL.
Art Unit	
Examiner Name	
Attorney Docket Number	WK2K1080

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,118,176	09-12-2000	Tao et al.	
		US- 6,163,076	12-19-2000	Lee et al.	
		US- 6,215,193			
		US- B1	04-10-2001	Tao et al.	
		US- 6,252,305			
		US- B1	06-26-2001	Lin et al.	
		US- 6,258,626			
		US- B1	07-10-2001	Wang et al.	
		US- 6,333,562			
		US- B1	12-25-2001	Lin	
		US- 6,359,340			
		US- B1	03-19-2002	Lin et al.	
		US- 6,365,966			
		US- B1	04-02-2002	Chen et al.	
		US- 6,387,728			
		US- B1	05-14-2002	Pai et al.	
		US- 6,461,897			
		US- B1	10-08-2002	Lin et al.	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. 1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		4056262 w/Eng. Abs.	02-24-1999			
		62126661 w/Eng. Abs.	06-08-1987			
		63128736 w/Eng. Abs.	06-01-1988			
		4-56262	02-24-1992			

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/076,701
Filing Date	02-13-2002
First Named Inventor	LEE ET AL.
Group Art Unit	
Examiner Name	
Attorney Docket Number	WK2K1080

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,347,429		Kohne et al.	09-13-1994	
		5,463,253		Waki et al.	10-31-1995	
		5,474,958		Djennas et al.	12-12-1995	
		5,581,498		Ludwig et al.	12-03-1996	
		5,739,581		Chillara et al.	04-14-1998	
		5,798,014		Weber	08-25-1998	
		5,835,355		Dordi	11-10-1998	
		5,894,108		Mostafazadeh et al.	04-13-1999	
		5,903,052		Chen et al.	05-11-1999	
		5,952,611		Eng et al.	09-14-1999	
		6,013,948		Akram et al.	01-11-2000	
		6,034,427		Lan et al.	03-07-2000	
		6,060,778		Jeong et al.	05-09-2000	
		6,072,243		Nakanishi	06-06-2000	
		6,122,171		Akram et al.	09-19-2000	
		6,127,833		Wu et al.	10-03-2000	
		6,160,705		Stearns et al.	12-12-2000	
		6,172,419		Kinsman	01-09-2001	
		6,184,463		Panchou et al.	02-06-2001	
		6,214,641		Akram	04-10-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
			05136323 A		Susumu et al.	01-06-1993		
			05109975 A		Ryuji et al.	03-04-1993		
			10-173085 (JP)					

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

+

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of.	2
-------	---	-----	---

Application Number	10/076,701
Filing Date	02-13-2002
First Named Inventor	LEE ET AL.
Group Art Unit	
Examiner Name	
Attorney Docket Number	WK2K1080

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date	
Considered	

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**